BEAM HARDENING POST-PROCESSING METHOD AND X-RAY CT APPARATUS

ABSTRACT OF THE DISCLOSURE

For the purpose of providing a beam hardening post-processing method that can improve the accuracy of channel-by-channel correction on a BH effect easily and yet taking a non-linear effect into account, phantoms of different diameters are disposed at a position offset from an imaging center to acquire projection information having a transmission length of an X-ray beam varying from view to view (Step S501), hence, acquire projection information having a projection information value varying from view to view, for each channel, correction factors are determined (Step S506), and a corrective function containing even a non-linear effect is determined by higher-order function fitting from the correction factors (Step S508); and therefore, correction with high accuracy can be achieved in the channel-by-channel correction on the projection information values conducted after BH correction, and moreover, correction with high accuracy can be achieved using a smaller amount of phantom projection information, thus reducing the time for calibration work.